

# North Hampton

## 24457

A002(909)



US 1 / North Road (west) Circa 2009

**Public Officials Meeting  
September 13, 2021**

# Meeting outline

- **Location**
- **Background**
- **Existing Conditions**
- **Public Hearing**
- **Public Hearing Feedback**
- **North Road (E) Concepts and Concerns**
- **Final Layout Review**
- **Comments, Questions and Concerns**





# Project Overview

Bridge replacement on US 1 over former Pan Am/B&M RR



Reconstruct North Road's east and west approaches

- Realign / Remove skew
- Reconstruct US Route 1 between the North Road approaches



# Location



# Background

## Public Officials Meeting 3/9/2015

- Concern from stakeholders on North Rd. approaches; Crashes; Poor sight distance; Difficult turning movement.
- Project includes North Roads approach work 10/19/2015.

## Public Informational Meeting 5/24/2017

- Road closure vs. long-term phased approach on US 1
- More traffic on minor roads, loss of business revenue

## Public Hearing 10/18/2018

- Property owner (Hale), abutters (Rhoades and Luff) and others concerned about impact to open space (North Rd. east)



# Roadway Existing Conditions

- **US Route 1 – Typical 2-12-10-12-2**
  - Minor Urban Arterial carrying 18,000 vehicles per day; Posted 45 mph
  - Two Way left turn lane; limited shoulders
- **North Road – Typical 11-1**
  - Local Road carrying 1340 VPD (east) 970 (west); Posted 30 mph
  - Safety concerns
    - Skew and slope of the intersections create poor sight distance
    - High traffic volumes on US 1 contribute to crashes.
    - From 2007-2017
      - 13 crashes (West); 9 Crashes (East)



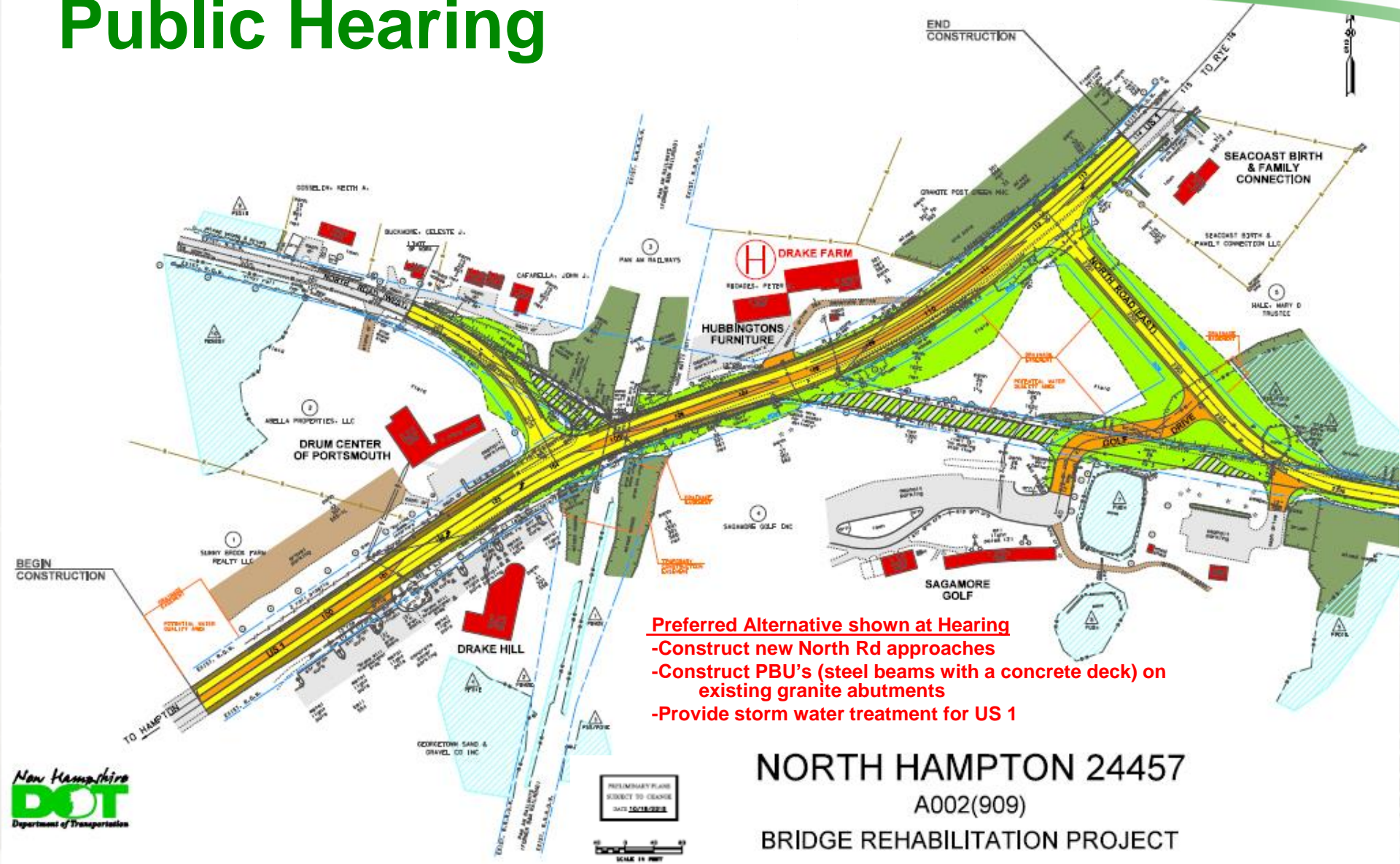
# Bridge Existing Conditions

- Deteriorating –Span 40' – Width 34'-47"
- Constructed 1936; designed by Robert Prowse; Red listed. #27 (2020)
- **Bridge Superstructure and Deck** - Multiple areas of cracking, leaking, spalling, delamination, and exposed rebar.
- **Bridge Rail** - Concrete rail on the east side of the bridge is failing
- **Bridge substructure** includes the stone abutments from the 1900 bridge that it replaced.
- The granite block abutments are in good condition and will be retained.





# Public Hearing





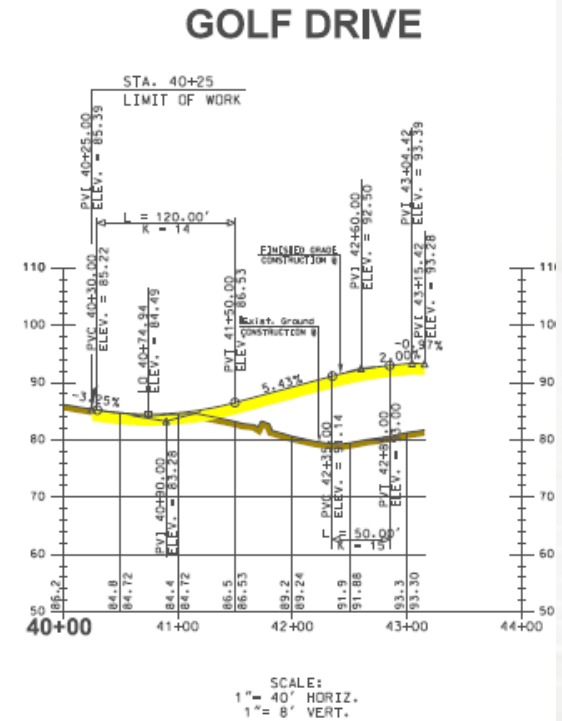
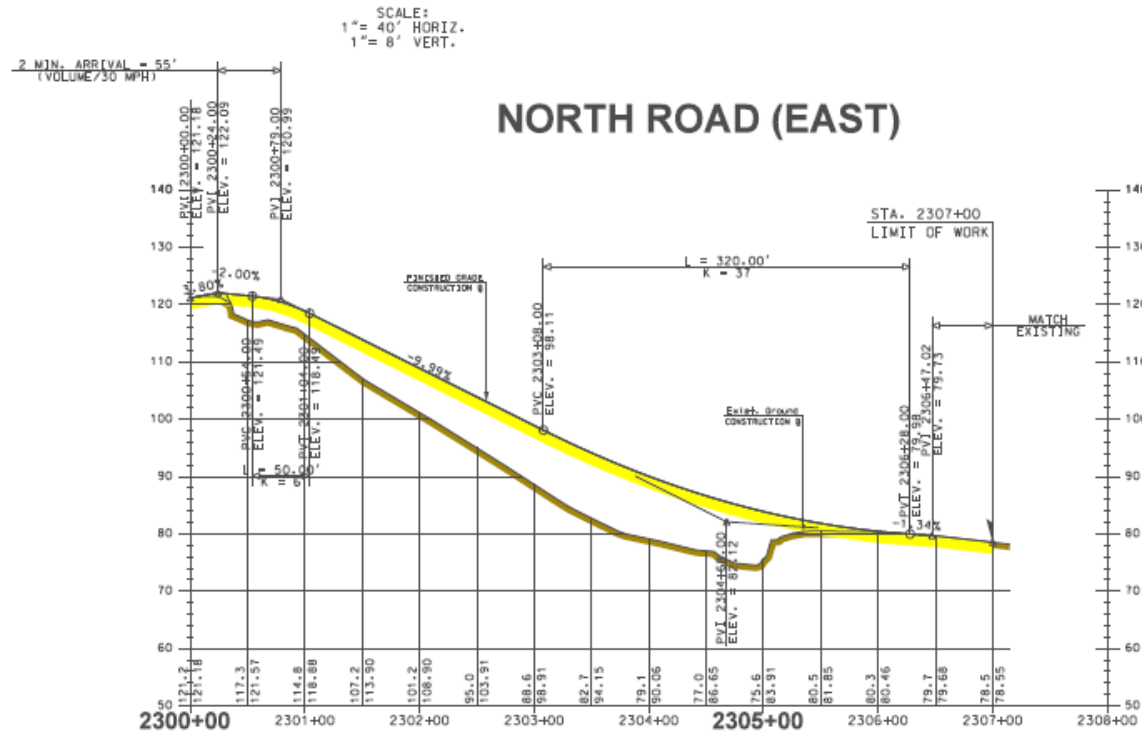
# Public Hearing



## North Road East relocation shown at Hearing

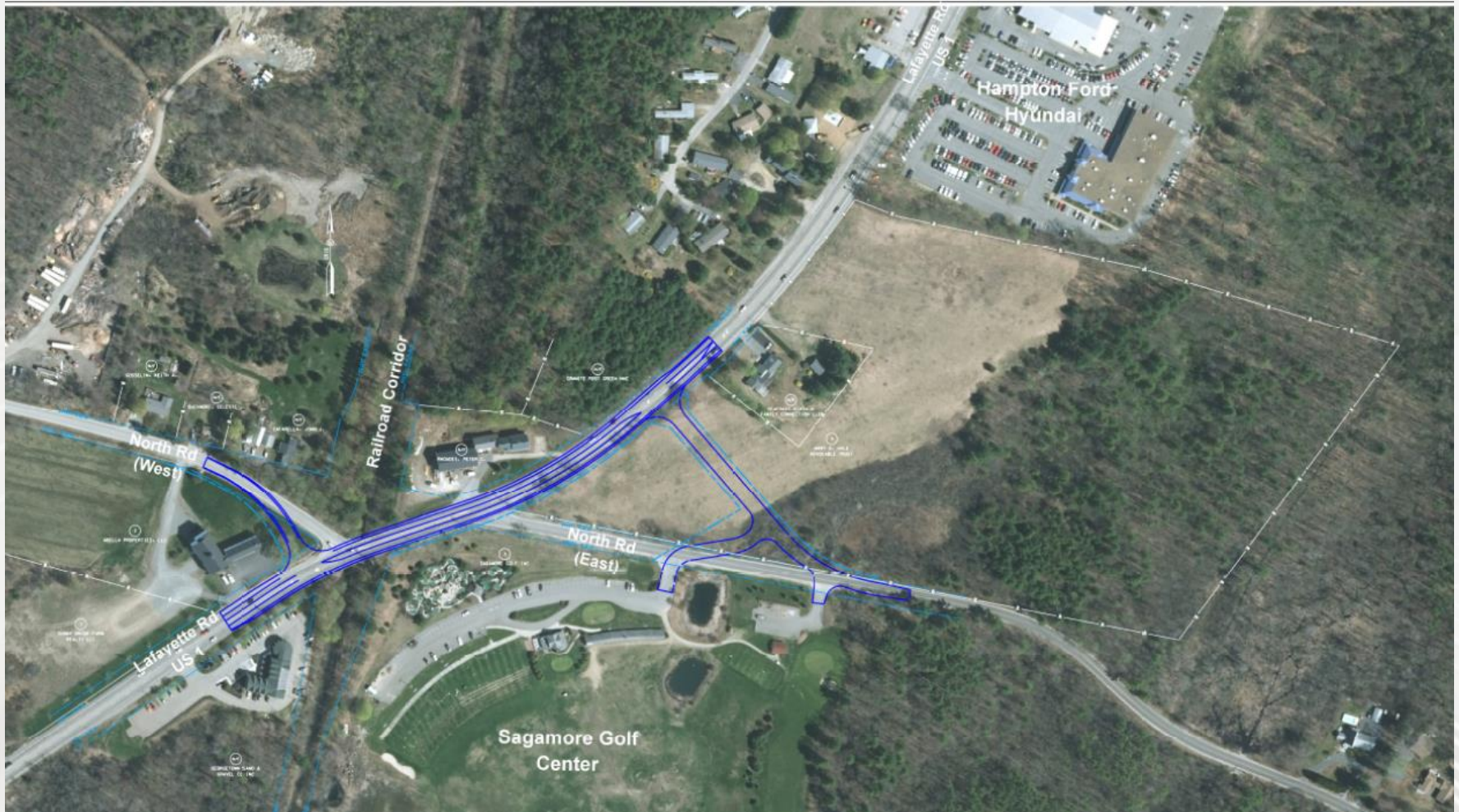
- Creates panel for driver to wait for gap in traffic
- Provides intersection sight distance for left and right turn movements
- Allows for reasonable drive approach for Sagamore Golf
- Provides storm water treatment for US 1

# Public Hearing





# Public Hearing Feedback



Stake holders at the Public Hearing raised concerns, specifically  
Impact to open space along US 1 along the corridor



# Public Hearing Feedback



North Road (E) proposed realignment location (as shown at Public Hearing) looking west, from North Road east



# North Road East Relocation Concepts

Conceptual alternatives were developed to minimize impacts to open space

Alternative A – Balance between cost and open space

Alternative B – Maintains maximum open space; Bisects property

Alternative C – Maintains maximum open space; Follows property line



North Road east proposed connection point to US 1 as shown on Alternatives A, B, C.



# North Road East Relocation Concepts

## North Road (E) Conceptual Alternative A



**LEGEND**

- |   |                                  |
|---|----------------------------------|
| Travel Way of Proposed Roadway              | Property Lines                   |
| Shoulder of Proposed Roadway                | Wetlands                         |
| Approximate Limit of Slope Work             | Proposed R.O.W.                  |
| Existing Right-of-Way (R.O.W.)              | Public Hearing Layout            |
| Proposed Treatment Area                     | Alternative B - North Rd. (East) |
| Proposed Easement (shown at Public Hearing) |                                  |

**NORTH HAMPTON 24457**  
**POST PUBLIC HEARING**  
**ALTERNATIVE A**  
**RELOCATION OF NORTH ROAD (EAST)**

PRELIMINARY PLANS  
WARRANTY THRESHOLD  
DATE 11/15/2020  
SCALE IN FEET  
0 50 100

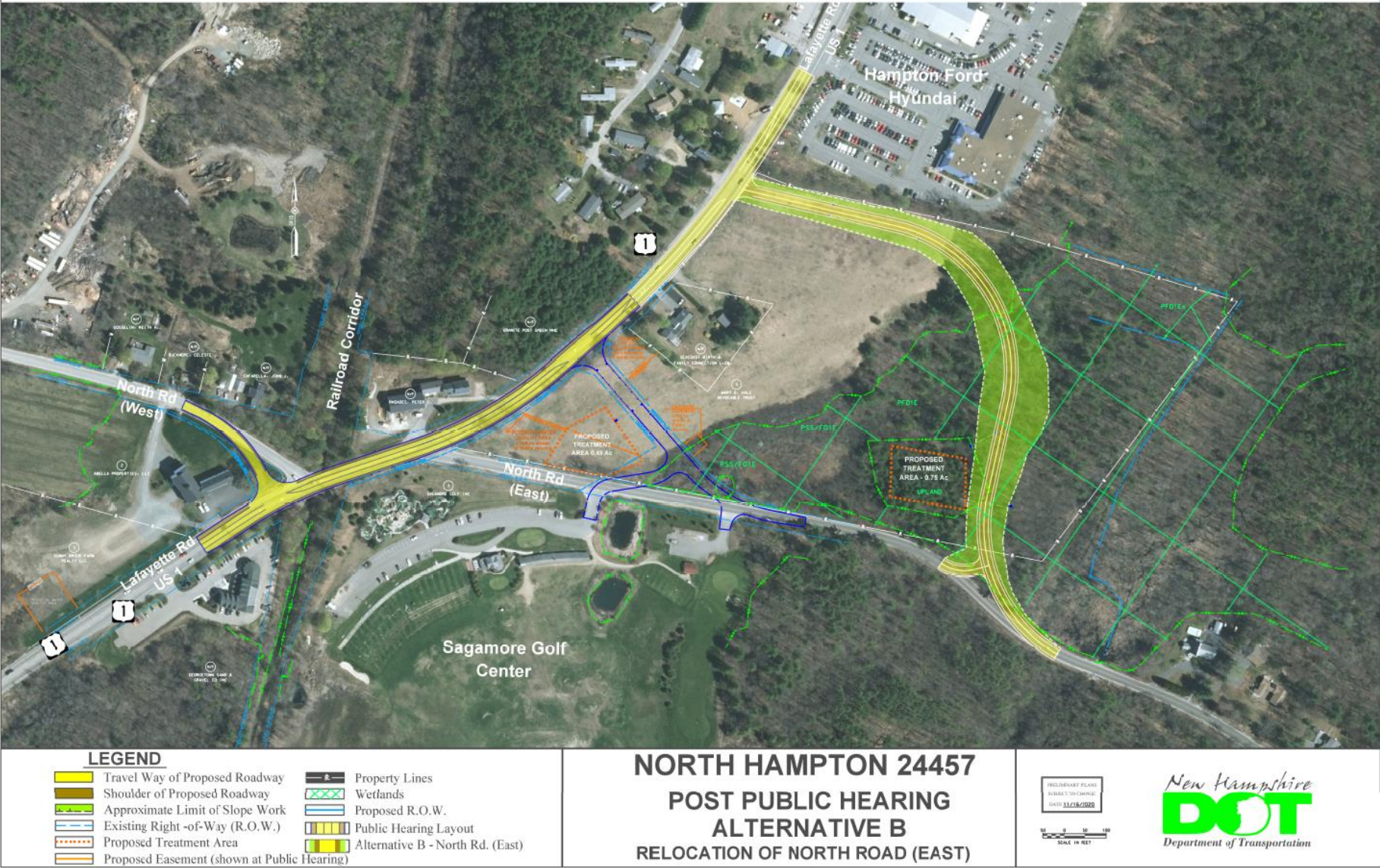
New Hampshire  
**DOT**  
Department of Transportation

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# North Road East Relocation Concepts

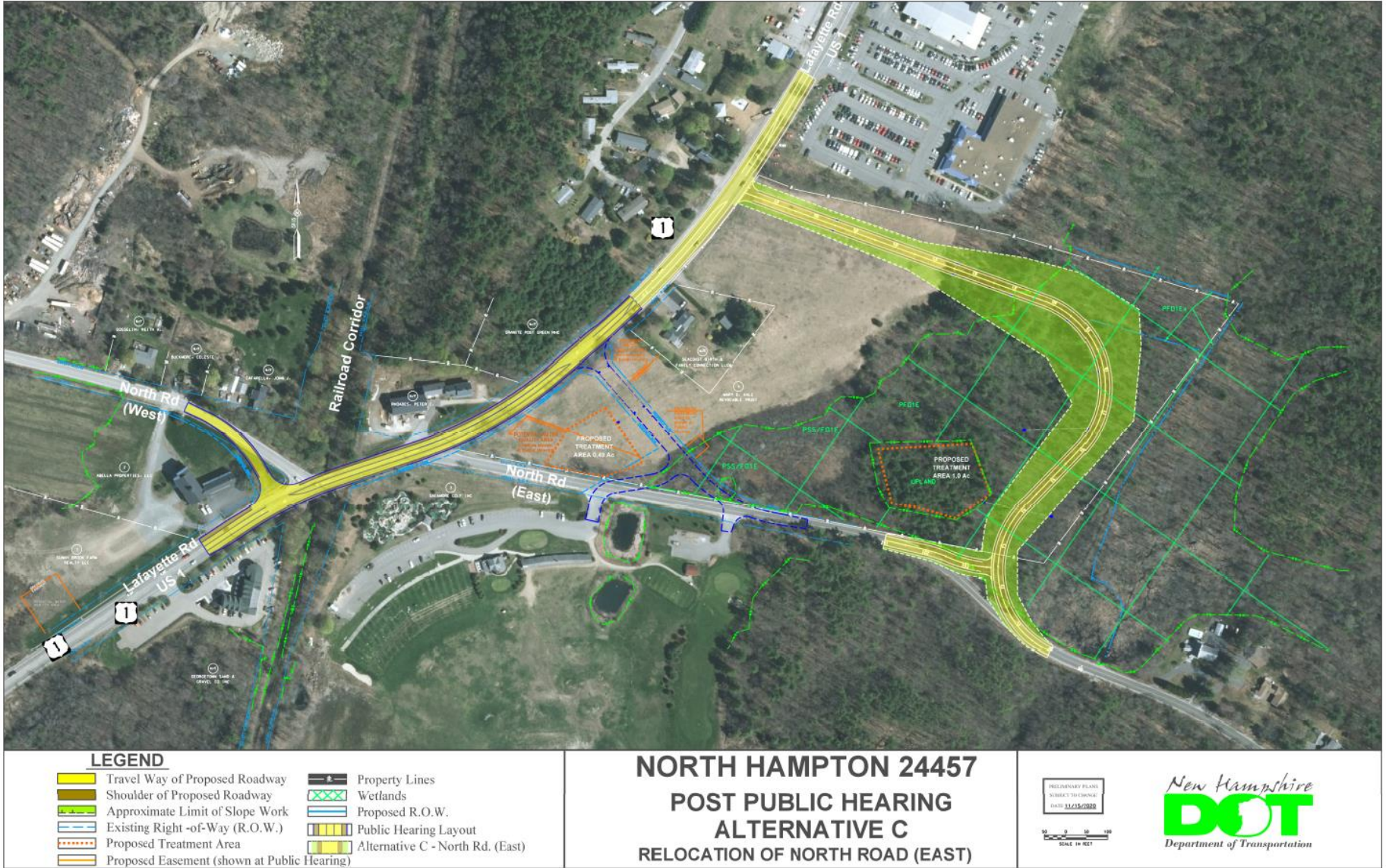
## North Road (E) Conceptual Alternative B





# North Road East Relocation Concepts

## North Road (E) Conceptual Alternative C





# North Road East Relocation Concepts

## Meeting with Town Manager

June 17, 2020 - Met with Town of North Hampton Interim Town Administrator and Director of Public Works.

Discussion as to whether the town would have an interest in partnering with the Department and cost share as appropriate.

Positive feedback and suggested bringing to the Select Board for review.

# North Road East Relocation Concepts

## Environmental Resource Concerns

October 13, 2020 – Met internally to discuss NEPA;  
Environment / Historic concerns for alternatives

<u>Resource/Concern</u>	<u>Present</u>	<u>Impacts</u>
<b>Wetlands</b>	<b>YES</b>	<b>YES</b>
Surface Waters	YES	YES
Federally-Listed Species Within Range*	YES	YES
Historic Resources	YES	YES
Amend Draft NEPA Document**	---	---

\*Alternatives extending more than 300 ft. from a road will require an acoustic survey for NLEB

\*\*NEPA needs to be finalized



# North Road East Relocation Concepts

## Environmental Resource Concerns

### Wetland Delineation

Wetlands delineation was a concern because of the hydric soils in the area.

This additional delineation in October of 2020 revealed a large wetland complex covering substantially more of the parcel than previously shown on wetland mapping, which was based on NWI maps, currently in GIS.

# North Road East Relocation Concepts

## Environmental Resource Concerns



Wetlands on Hale Property delineated by Sarah Large and Marc Laurin, NHDOT 10/23/2020. Wetland boundaries were identified and GPS located for preliminary design purposes only. ACOE data plot forms and function and values assessments are required if impacting and permitting are pursued. Three wetland (PFO1Ex) ditches were encountered during the site visit. They were very uniform in width (4-6ft) and linear. They show characteristics of being old agricultural ditches that drew water away from the adjacent field to the forest.

0 230 460 920 Feet 1 inch = 150 feet



# North Road East Relocation Concepts

## Environmental Resource Concerns

### Mitigation

Permanent Wetland Impacts will exceed the 10,000 SF threshold for all conceptual alternatives and current design as shown at Public Hearing.

Preliminary Wetland Impacts				
Impact Location	Hearing Plan	Alt. A	Alt. B	Alt. C
	Ac.	Ac.	Ac.	Ac.
North Rd (East)	0.31	0.45	1.9	3.2
North Rd (West)	0			
US 1 (Roadway)	0			
Bridge Work	0	0	0	0
Project Total	0.31	0.45	1.9	3.2

# North Road East Relocation Concepts

## Environmental Resource Concerns

### Meeting with Natural Resource Agencies

#### NHDES

- Concerned about the additional and greater wetland impacts associated with the three conceptual alternatives.
- The three alternative don't address the **least impacting criteria** of the wetland regulations; Difficult for DOT to establish why any of the three conceptual alternatives would be the least impacting.
- **All alternatives impact the open space of the field and would only move the open space impacts further to the north.**
- The original hearing design is reasonable. Site meetings would be necessary if a conceptual alternative is pursued.

#### NH Fish and Game

- The three alternative concepts fragment wildlife connectivity to a much greater degree; The original concept is the best.



# North Road East Relocation Concepts

## Environmental Resource Concerns

### Meeting with Natural Resource Agencies (cont.)

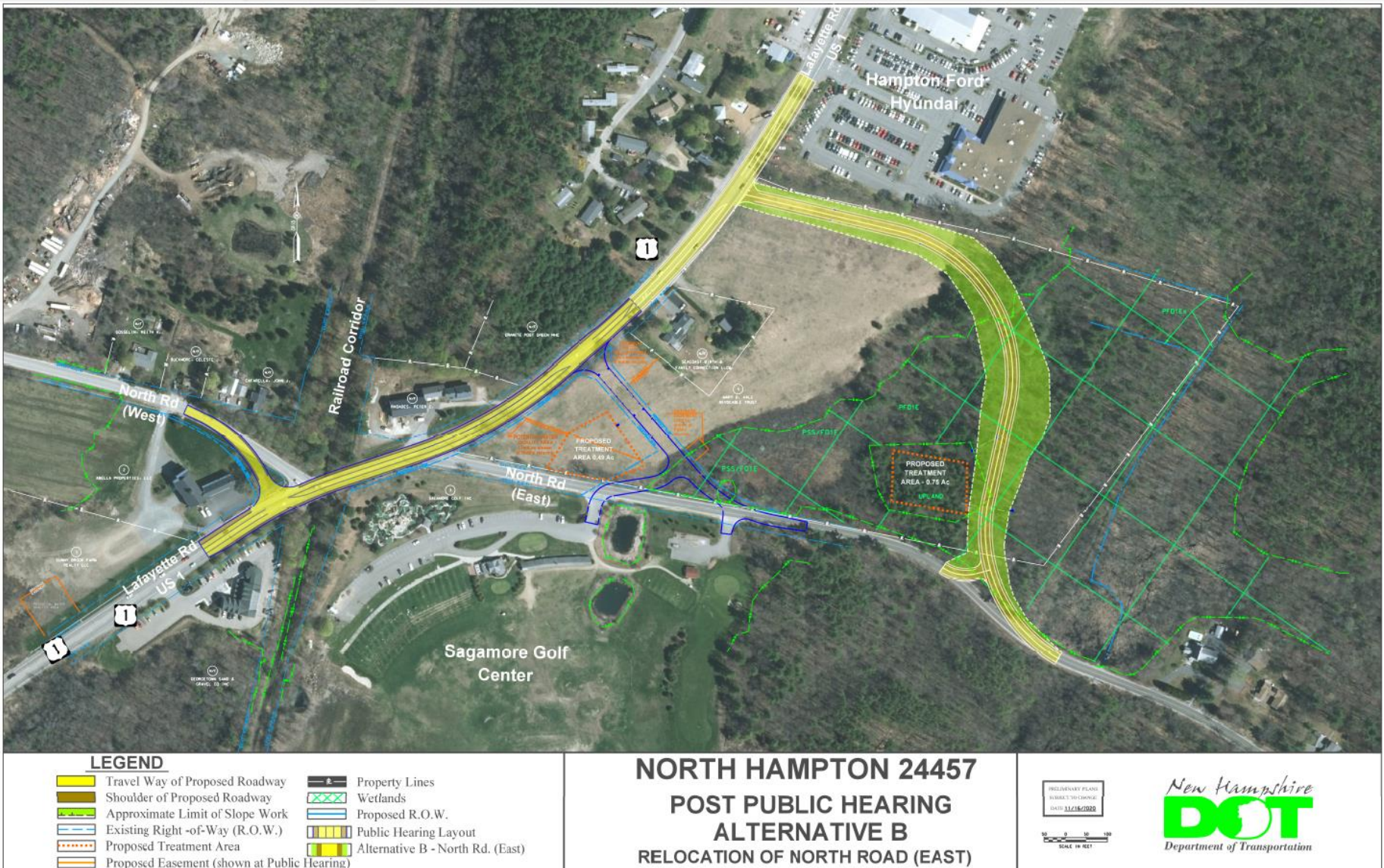
NH Natural Heritage Board, Army Corps of Engineers and The Nature Conservancy

- The original concept is the least environmentally impactful.

#### The Nature Conservancy

- Open space includes “green space” (i.e. undeveloped areas).
- Fragmentation of habitat with the three conceptual alternatives is a concern.
- *Connect the Coast* has identified a wildlife corridor in the area.
- These green spaces have been recognized by the Land Conservation Priorities for the Protection of Coastal Water Resources (2016), a conservation plan funded by the NHDES Coastal Program and NOAA, as important pollution attenuation areas.

# North Road East Relocation Alternative B



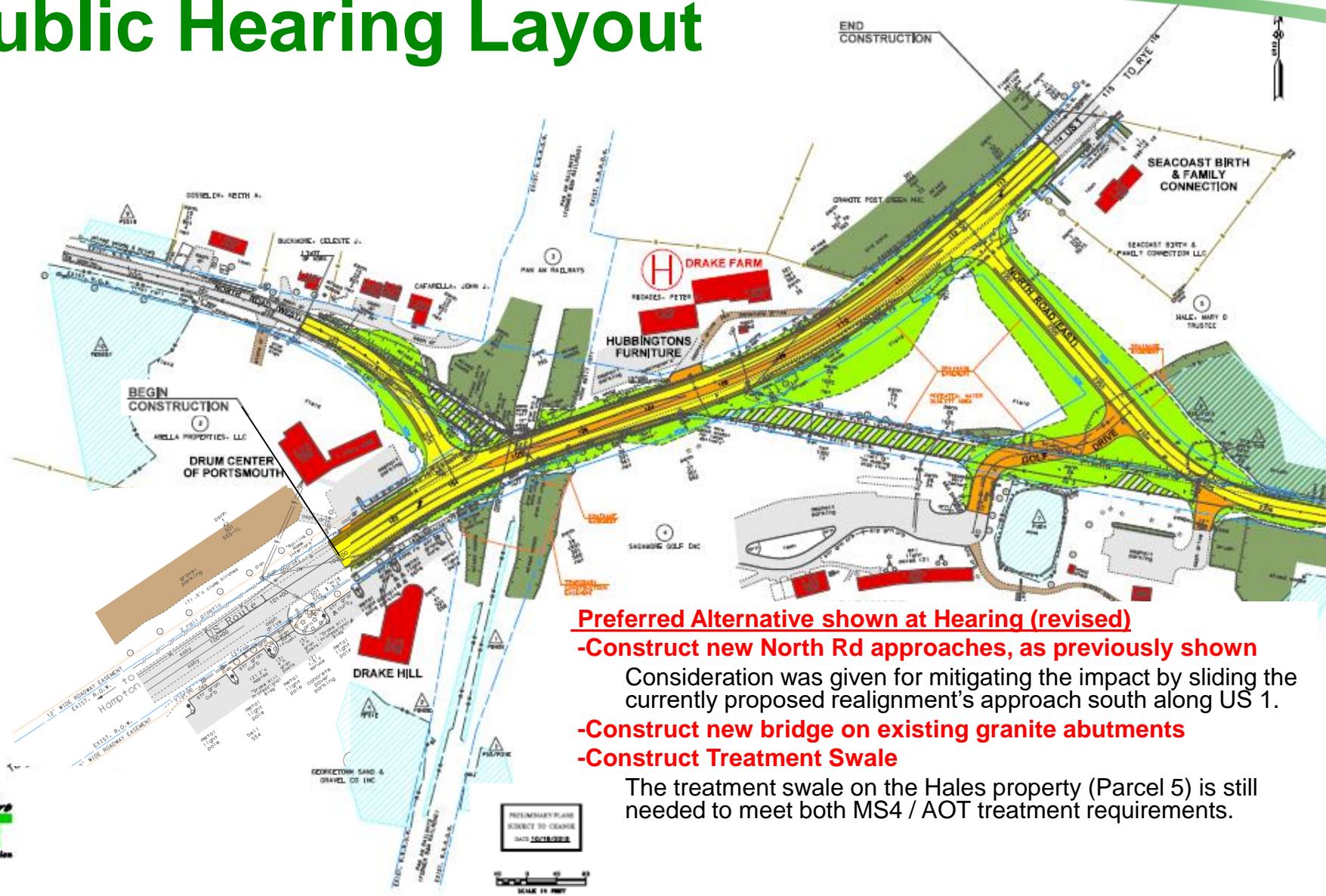


# North Road East Relocation Alternative B

- Wetland impacts would be increased from 0.31 Acres to 1.9 Acres
- Minimizing wetland impacts is a critical part of the permit application and would be required for NHDES to issue a permit.
- The Natural Resources Agencies were in general agreement that it would be difficult to justify that any of the conceptual alternatives met the standard when the current relocation, as shown at the Public Hearing, had significantly less wetland impact.
- Stormwater Treatment required.
  - The treatment swale on Mary Hales property (Parcel 5) is still needed to meet both MS4 and AOT treatment requirements as well as the need for additional swales and treatment along the proposed roadway within the property limits.

**Due to the significant cost, additional design time and environmental permitting challenges this is not the preferred alternative.**

# Public Hearing Layout



## Preferred Alternative shown at Hearing (revised)

### -Construct new North Rd approaches, as previously shown

Consideration was given for mitigating the impact by sliding the currently proposed realignment's approach south along US 1.

### -Construct new bridge on existing granite abutments

### -Construct Treatment Swale

The treatment swale on the Hales property (Parcel 5) is still needed to meet both MS4 / AOT treatment requirements.



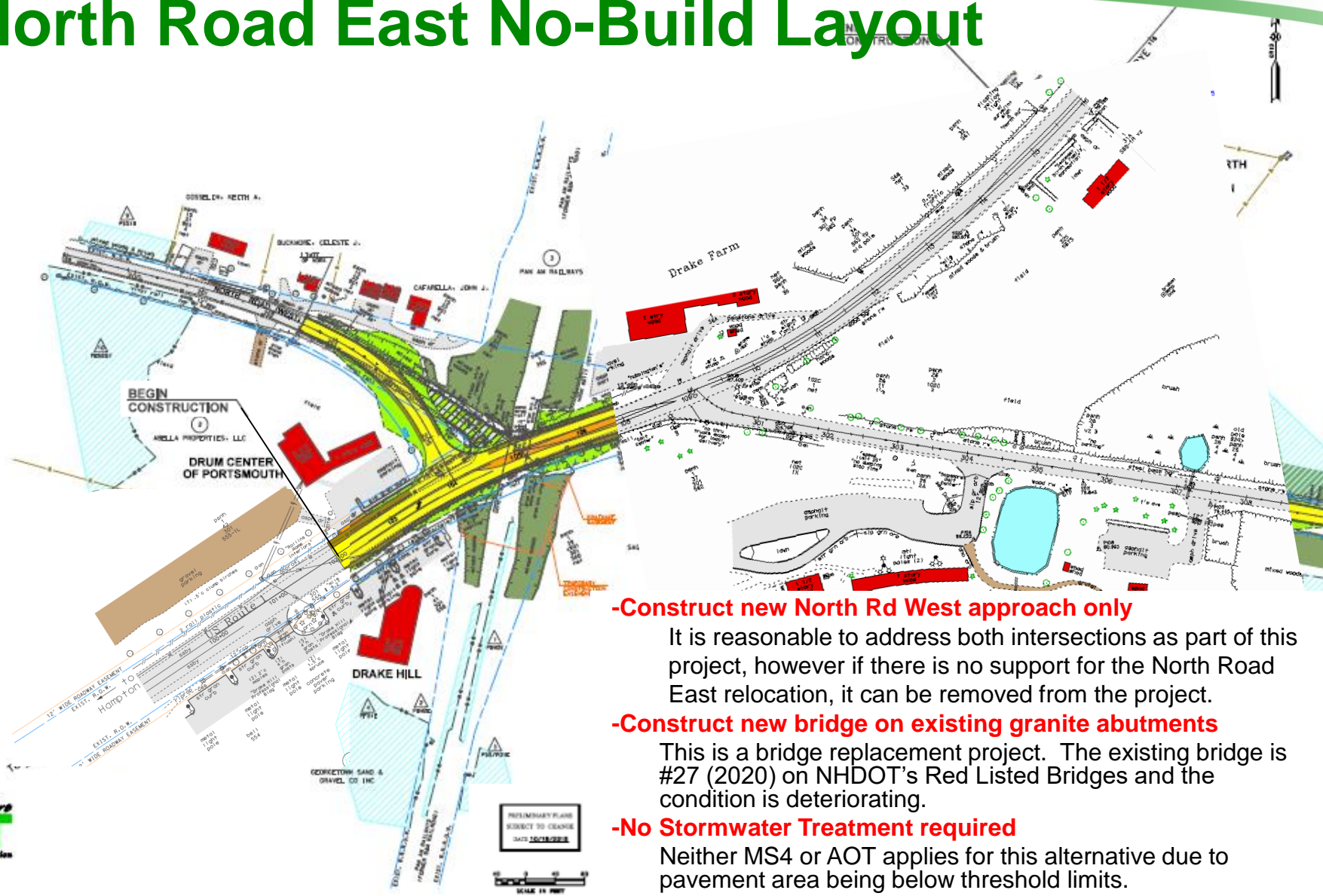
# Public Hearing Layout

Due to the extensive wetland system and the need for Storm water treatment, a reasonable drive approach for Sagamore Golf's driveway and geometric improvements, the possible locations for the approach are limited.

At this time the Department is prepared to progress the project, with the Public Hearing Layout, as shown previously, with consolidated treatment areas.

**This is the Preferred Alternative**

# North Road East No-Build Layout



## -Construct new North Rd West approach only

It is reasonable to address both intersections as part of this project, however if there is no support for the North Road East relocation, it can be removed from the project.

## -Construct new bridge on existing granite abutments

This is a bridge replacement project. The existing bridge is #27 (2020) on NHDOT's Red Listed Bridges and the condition is deteriorating.

## -No Stormwater Treatment required

Neither MS4 or AOT applies for this alternative due to pavement area being below threshold limits.

**No impacts to Parcel 5 (Hale).**



# Anticipated Schedule

Public Officials Meeting – September 2021

Final Design Contract NTP– May 2022

Advertising Date

Fall/Winter 2023

Begin Construction

Spring 2024



# Comments, Questions or Concerns



1923

North Hampton Railroad Station